



PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	1	of	4	Attorney Docket Number	014089-002580US
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Complete If Known

Application Number	10/773,796
Filing Date	February 6, 2004
First Named Inventor	Veerasamy, Vijayen
Art Unit	4773 1762
Examiner Name	Unassigned Padgett

**U.S. PATENT DOCUMENTS\***

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
[Signature]	0001	US-4,123,316		10-31-1978	Tsuchimoto	
	0002	US-4,226,666		10-07-1980	Winters et al.	
	0003	US-4,749,608		06-07-1988	Nakayama et al.	
	0004	US-4,822,468		04-18-1989	Rabalais et al.	
	0005	US-5,017,835		05-21-1991	Oechsner	
	0006	US-5,084,809		11-12-1991	Hed	
	0007	US-5,082,359		01-21-1992	Kirkpatrick	
	0008	US-5,082,522		01-21-1992	Purdes et al.	
	0009	US-5,091,049		02-25-1992	Campbell et al.	
	0010	US-5,128,206		06-30-1992	Garg et al.	
	0011	US-5,158,703		10-20-1992	Oechsner	
	0012	US-5,182,132		01-26-1993	Murai et al.	
	0013	US-5,186,973		02-16-1993	Garg et al.	
	0014	US-5,246,884		09-21-1993	Jaso et al.	
	0015	US-5,384,690		11-15-1994	Takahashi et al.	
	0016	US-5,374,318		12-20-1994	Rabalais et al.	
	0017	US-5,411,797		05-02-1995	Davanloo et al.	
	0018	US-5,423,915		06-13-1995	Murata et al.	
	0019	US-5,482,784		10-31-1995	Grill et al.	
	0020	US-5,466,431		11-14-1995	Dorfman et al.	
	0021	US-5,470,881		11-28-1995	Bailey et al.	
	0022	US-5,559,367		09-24-1996	Cohen et al.	
	0023	US-5,569,501		10-29-1996	Bailey et al.	
	0024	US-5,607,783		03-04-1997	Onodera	
	0025	US-5,616,179		04-01-1997	Baldwin et al.	
	0026	US-5,637,393		06-10-1997	Ueda et al.	
	0027	US-5,705,272		01-08-1998	Taniguchi	
	0028	US-5,852,303		12-22-1998	Cuomo et al.	
	0029	US-5,945,191		08-31-1999	Hwang et al.	
	0030	US-6,084,148		05-18-2000	Tolt et al.	
	0031	US-6,194,047		02-27-2001	Hayashi	

Examiner  
SignatureDate  
Considered

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

60260100 v1

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/773,796		
		Filing Date	February 6, 2004		
		First Named Inventor	Veerasamy, Vijayen		
		Art Unit	<del>1773</del> 1762		
Sheet	2	of	4	Examiner Name	Unassigned Padgett
				Attorney Docket Number	014089-002580US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	0032	EP	0 552 491	A1	07-28-1993	Collins et al.		<input type="checkbox"/>
	0033	EP	0 595 584	A2	05-04-1994	Takai et al.		<input type="checkbox"/>
	0034	EP	0 700 033	A2	03-08-1996	Gray		<input type="checkbox"/>
	0035	JP	2-168540	A	06-28-1990	Oda		<input type="checkbox"/>
	0036	JP	5-143971	A	06-11-1993	Okumura et al.		<input type="checkbox"/>
	0037	JP	6-139580	A	05-20-1994	Miyazaki		<input type="checkbox"/>
	0038	JP	6-349054	A	12-22-1994	Onodera		<input type="checkbox"/>
								<input type="checkbox"/>

*reviewed parent's file  
- no references present there in  
M/P*

Examiner Signature		Date Considered	2/8/05
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60260100 v1

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/773,796	
			Filing Date	February 6, 2004	
			First Named Inventor	Veerasamy, Vijayen	
			Art Unit	4773 1762	
			Examiner Name	Unassigned M.L. Padgett	
Sheet	3	of	4	Attorney Docket Number	014089-002580US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	0039	Aisenberg, S. et al.; "Ion-Beam Deposition of Thin Films of Diamondlike Carbon," <u>J. Appl. Phys.</u> ; June 1971; pp. 2953-2958; vol. 42; No. 7.	
	0040	Boxman, R.L. et al.; "Recent Progress in Filtered Vacuum Arc Deposition;" <u>Paper submitted, Int. Conf. Metallurgical Coatings and Thin Films</u> ; April 1996; San Diego.	
	0041	Chhowalla, M. et al.; "Deposition of Smooth Tetrahedral Amorphous Carbon Thin Films Using a Cathodic Arc Without a Macroparticle Filter;" <u>Appl. Phys. Lett.</u> ; 1995; pp. 894-896; vol. 67; No. 7.	
	0042	Chhowalla, M. et al.; "Stationary Carbon Cathodic Arc: Plasma and Film Characterization;" <u>J. Appl. Phys.</u> ; 1996; pp. 2237-2244; vol. 79; No. 5.	
	0043	Dissertation by Dieter Martin, 1995.	
	0044	Dissertation by Manfred Weller, 1994.	
	0045	Dissertation by Vijayen S. Veerasamy, 1994.	
	0046	Grill, A. et al.; "Diamondlike Carbon Deposited by DC PACVD;" <u>Diamond Films and Techn.</u> ; 1992; pp. 219-233; vol. 1, No. 4.	
	0047	Grill, A., et al.; "Diamondlike Carbon Films by rf Plasma-Assisted Chemical Vapor Deposition from Acetylene;" <u>IMB J. Res. Develop.</u> ; November 1990; pp.849-857; vol. 34; No. 6.	
	0048	Kuhn, M. et al.; "Deposition of Carbon Films By A Filtered Cathodic Arc;" <u>Diamond and Related Materials</u> ; August 1993; pp. 1350-1354; vol. 2; No. 10.	
	0049	Oechsner, H. et al.; "An RF Plasma Beam Source for Thin Film and Surface Technology;" <u>Proc. 1st Int. Conf. on Plasma Surface Engineering, Garmisch Partenkirchen, 1988</u> ; 1989; pp. 1017-1024; vol. 11; DGM Informationen Gesellschaft, Obervell.	
	0050	Oechsner, H.; "Electron Cyclotron Wave Resonances and Power Absorption Effects in Electrodeless Low Pressure H.F. Plasmas with a Superimposed Static Magnetic Field;" <u>Plasma Physics</u> ; 1974; pp. 835-844; vol. 16.	
	0051	Park, K.C. et al.; "Enhancement of Field-Emission Characteristics by Using Hydrogen-Free Diamond-Like Carbon Film Deposited by Plasma-Enhanced Chemical Vapor Deposition;" <u>SID 96 Digest</u> ; 1996; pp. 49-52.	
	0052	Pfeiffer, B.; "Skin Effect in Anisotropic Plasmas and Resonance Excitation of Electron-Cyclotron Waves. I. Theory;" <u>Journal of Applied Physics</u> ; 1986; pp. 1624-1627; vol. 37; No. 4.	
	0053	PR Newswire. CeBIT Showcase for Major Advance in Magnetic Disk Storage Capacity; Feb. 2000; Hanover, Germany; website: <a href="http://www.prnswire.com">http://www.prnswire.com</a> ; (Feb. 19, 2000).	
	0054	Sager, O.; "The Influence of Nonuniform Density Distribution and Electron Temperature on the Helicon-Resonances in Low Pressure Discharges;" 1971.	

Examiner Signature	<i>M.L. Padgett</i>	Date Considered	2/8/05
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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
		<b>Application Number</b>	10/773,796
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<b>Filing Date</b>	February 6, 2004
		<b>First Named Inventor</b>	Veerasamy, Vijayen
		<b>Art Unit</b>	<del>1773</del> 1762
		<b>Examiner Name</b>	Unassigned Padgett
(use as many sheets as necessary)		<b>Attorney Docket Number</b>	014089-002580US
Sheet	4	of	4

NON PATENT LITERATURE DOCUMENTS <sup>2</sup>			
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	0055	Szuszczewicz, Edward P.; "Spatial Distributions of Plasma Density in a High-Frequency Discharge with a Superimposed Static Magnetic Field," <u>The Physics of Fluids</u> ; 1972; pp. 2240-2246; vol. 15; No. 12.	
	0056	Thesis by Armin Fuchs, 1987.	
	0057	Thesis by Franz Schon, 1968.	
	0058	Thesis by Manfred Weiler, 1989.	
	0059	Veerasamy, V.S. et al.; "Electronic Density of States in Highly Tetrahedral Amorphous Carbon," <u>Solid-State Electronics</u> ; 1994; pp. 319-326; vol. 37; No. 2.	
	0060	Weiler, M. et al.; "Highly Tetrahedral, Diamond-like Amorphous Hydrogenated Carbon Prepared from a Plasma Beam Source," <u>Appl. Phys. Lett.</u> ; 1994; pp. 2797-2799; vol. 64; No. 23.	
	0061	Weiler, M. et al.; "Preparation and Properties of Highly Tetrahedral Hydrogenated Amorphous Carbon," <u>Physical Review B</u> ; 1996; pp. 1594-1608; vol. 53; No. 3.	
	0062	Weiler, M. et al.; "Structure of Amorphous Hydrogenated Carbon: Experiment and Computer Simulation," <u>Diamond and Related Materials</u> ; 1994; pp. 245-253; vol. 3.	

reviewed parent <sup>file wrapper</sup> no references found therein,  
(10/354,336, now PNG 740,384)

hence these literature references can not be  
reviewed by the examiner.

Examiner Signature	<i>M. L. Padgett</i>	Date Considered	2/8/05
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